

Claims:

1. Disk motor with an armature disk, which is rotatably mounted and provided with permanent magnets, and with a stator comprising a stator plate which is equipped with coils, characterized by the fact that
- an annular soft-magnetic prestressing device (20) is arranged concentrically on the stator plate (10) in such a manner that at least one section of the prestressing device is located below the coil window (18a, 18b) of the coils (17a, 17b) in the axial direction.
2. Disk motor as claimed in Claim 1, characterized by the fact that the stator plate (10) is of a non-magnetic material.
3. Disk motor as claimed in Claim 1 or 2, characterized by the fact that the annular prestressing device (20) comprises a closed prestressing ring (21).
4. Disk motor as claimed in Claim 1 or 2, characterized by the fact that the annular prestressing device (20) comprises at least one ring segment.
5. Disk motor as claimed in one of the Claims 1 through 4, characterized by the fact that the armature disk (3) supports an annular flux-return element (5) opposite which the annular prestressing device (20) is located in the radial direction.

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6. Disk motor as claimed in Claim 5, characterized by the fact that the prestressing device (20) has a cross-sectional contour that guides the magnetic lines of electric flux from the annular flux-return element (5) to the coil window (18a,b).
7. Disk motor as claimed in Claim 6, characterized by the fact that the cross-section of the prestressing device (20) becomes wider in the direction of the coil window (18a,b).
8. Disk motor as claimed in one of the Claims 6 or 7, characterized by the fact that the prestressing device (20) has a stepped cross-sectional contour.

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